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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,098	02/19/2004	Carmen Flosbach	FA1224USNA	4752
23906 7590 01/17/2007 E I DU PONT DE NEMOURS AND COMPANY LEGAL PATENT RECORDS CENTER BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE WILMINGTON, DE 19805			EXAMINER	
			SERGENT, RABON A	
			ART UNIT	PAPER NUMBER
			1711	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/17/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/782,098	FLOSBACH ET AL.
Office Action Summary	Examiner	Art Unit
	Rabon Sergent	1711
The MAILING DATE of this communication Period for Reply		ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory pe Failure to reply within the set or extended period for reply will, by si Any reply received by the Office later than three months after the n earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MOR tatute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 0	03 November 2006	
·	This action is non-final.	
Since this application is in condition for allocation accordance with the practice und	owance except for formal mat	·
Disposition of Claims		
4) ⊠ Claim(s) 1.4.7 and 10 is/are pending in the 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1.4.7. and 10 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction are	drawn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Exam		
10) The drawing(s) filed on is/are: a)	accepted or b) □ objected to	by the Examiner.
Applicant may not request that any objection to		• •
Replacement drawing sheet(s) including the control of the oath or declaration is objected to by the	·	
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage

Attachment(s)) Notice of References Cited (PTO-892)	4) Intensions	Summary (PTO-413)

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 3, 2006 has been entered.

2. Claims 1, 4, 7, and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicants have claimed that the hydroxy-C2-C4-alkyl (meth)acrylate component is selected from the group consisting of hydroxyethylacrylate and hydroxypropylacrylate; however, this language is confusing, because the recited species do not encompass C4 alkyl groups or methacrylate groups. It is unclear why presumably excluded species are encompassed by the language specifying or identifying the Markush group.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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4. Claims 1, 4, 7, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 01/25359.

The reference discloses polyurethane diacrylates and powder coatings derived from the polyurethane diacrylates, wherein the polyurethane diacrylates are produced from the reaction of hexane diisocyanate with ethylene glycol, butanediol, and hydroxyethyl acrylate in a molar ratio that meets that claimed. See example 5 on page 46 and examples 3 and 4 on pages 49-51.

Though other mixtures of diols are not exemplified that specifically meet those claimed, the reference does disclose the use of other diol species that meet those claimed at page 22, lines 18-25. Since the diols of the exemplified blend are included within this listing of diols, this listing essentially establishes the equivalency of the disclosed other diol species to those of the example. Accordingly, it would have been *prima facie* obvious to utilize any of the disclosed diols in the form of blends in the production of the polyurethane diacrylates, in accordance with the teachings of the example.

5. Applicants have argued that their invention yields unexpected results over the prior art and have provided 37 CFR 1.132 declarations to demonstrate these results. The examiner has considered applicants' declarations; however, the declarations are deficient, because the examples of the declarations are not commensurate in scope with the claims. The claims encompass fractional values of X and molar ratios of the diols that are not exemplified within the declaration. For example, it would seem that the most relevant showings would be where X equals 2.5, since the claims encompass such a value and the prior art specifically exemplifies

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such a value; however, no showings have been provided for this value. It has been held that

evidence of unexpected results must pertain to the full extent of the subject matter claimed. In re

Ackermann, 170 USPQ 340; In re Chupp, 2 USPQ2d 1437, 1440; In re Murch, 175 USPQ 89.

Accordingly, it has been held that to overcome a reasonable case of prima facie obviousness, a

given claim must be commensurate in scope with any showing of unexpected results. In re

Greenfield, 197 USPQ 227. Furthermore, it has been held that a limited showing of criticality is

insufficient to support a broadly claimed range. In re Lemin, 161 USPQ 288. For these reasons,

applicants' declaration is insufficient to overcome the prior art rejection. Applicants' argument

with respect to the criticality of a range is not understood, since the position is taken that the

ranges are relevant to the obviousness or nonobviousness of the invention.

6. It is noted that WO 01/25359 corresponds to U.S. Patent 6,825,241.

Any inquiry concerning this communication should be directed to R. Sergent at telephone

number (571) 272-1079.

R. Sergent

January 3, 2007

RABON SERGENT PRIMARY EXAMINER

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